

Title (en)

PARALLEL PROGRAM GENERATING METHOD AND PARALLELIZATION COMPILING APPARATUS

Title (de)

PARALLELES PROGRAMMGENERIERUNGSVERFAHREN UND KOMPILIERENDE PARALLELISIERUNGSVORRICHTUNG

Title (fr)

PROCÉDÉ DE GÉNÉRATION DE PROGRAMME PARALLÈLE ET APPAREIL DE COMPILATION DE PARALLÉLISATION

Publication

**EP 3343351 A1 20180704 (EN)**

Application

**EP 17210290 A 20171222**

Priority

- JP 2016255938 A 20161228
- JP 2017178110 A 20170915

Abstract (en)

There is provided a parallel program generating method capable of generating a static scheduling enabled parallel program without undermining the possibility of extracting parallelism. The parallel program generating method executed by the parallelization compiling apparatus 100 includes a fusion step (FIG. 2/STEP026) of fusing, as a new task, a task group including a reference task as a task having a conditional branch, and subsequent tasks as tasks control dependent, extended-control dependent, or indirect control dependent on respective of all branch directions of the conditional branch included in the reference task.

IPC 8 full level

**G06F 8/41** (2018.01)

CPC (source: CN EP US)

**G06F 8/41** (2013.01 - CN); **G06F 8/425** (2013.01 - CN US); **G06F 8/433** (2013.01 - CN US); **G06F 8/45** (2013.01 - CN);  
**G06F 8/452** (2013.01 - US); **G06F 8/456** (2013.01 - EP US)

Citation (applicant)

- JP 2015001807 A 20150105 - DENSO CORP, et al
- JP 4082706 B2 20080430
- JP 4177681 B2 20081105
- JP 2014160453 A 20140904 - UNIV WASEDA, et al
- M. MIYAZAWA; M. OKAMOTO; H. KASAHARA: "A Subroutine Parallel Processing Scheme for Hierarchical Macro-dataflow Computation", PROC. 48TH NATIONAL CONVENTION OF IPSJ, 1994
- M. MIYAZAWA; M. OKAMOTO; H. KASAHARA: "Hierarchical Parallelism Control Scheme for Multigrain Parallelization", TRANS. OF IPSJ, 2003
- D. INAISHI; K. KIMURA; K. FUJIMOTO; W. OGATA; M. OKAMOTO; H. KASAHARA: "Proc. 58th National Convention of IPSJ", 1999, article "A Cache Optimization with Earliest Executable Condition Analysis"

Citation (search report)

- [I] WO 2008041442 A1 20080410 - FUJITSU LTD [JP], et al
- [A] US 2006070047 A1 20060330 - NARAYANASAMY SATISH [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3343351 A1 20180704; EP 3343351 B1 20230426**; CN 108255492 A 20180706; US 10698670 B2 20200630; US 2018181380 A1 20180628

DOCDB simple family (application)

**EP 17210290 A 20171222**; CN 201711469305 A 20171228; US 201715856306 A 20171228